5. Dean

Program Name: Dean.java Input File: dean.dat

Your friend Dean has recently learned about Palindromes in his CS1 class. As he explains to you, a Palindrome is any string that is the same forwards and backward. Naturally, this includes a single character. Dean has been going through random books and picking out sentences, smashing them together, and counting the number of substrings that are palindromes. A substring, as he also explains to you, is any continuous run of characters in a string.

Input: The first input line will contain a number N ($1 \le N \le 10$) defining the number of strings to check. The following N lines will contain a single string. The length of each string will be a whole number M such that $1 \le M \le 10^5$.

Output: Output the number of substrings that are palindromic for each string.

Sample input:

3

abc

aaa

213

Sample output:

3

6 3